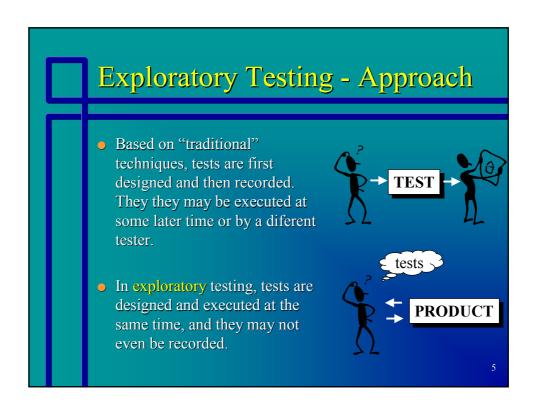
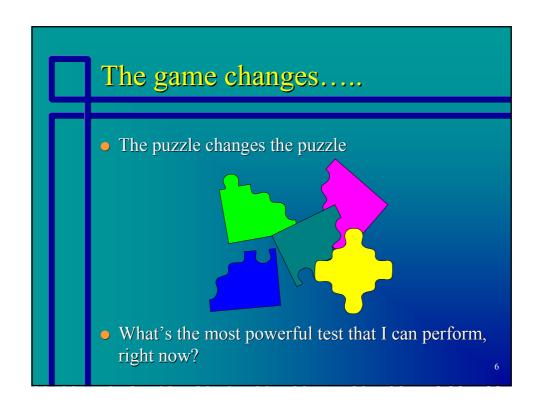
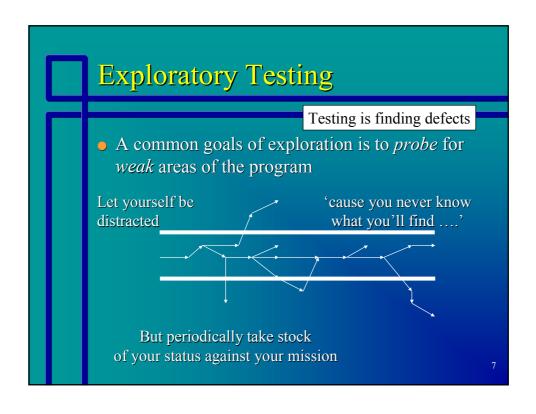
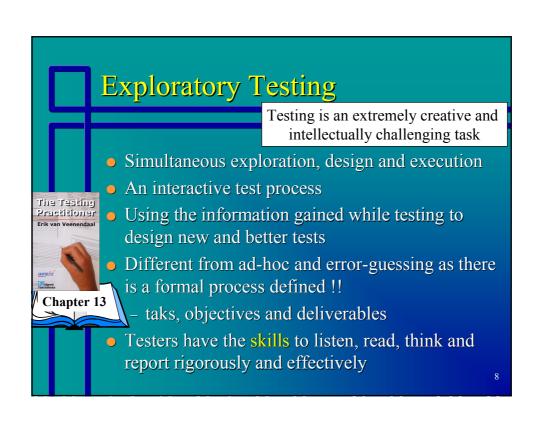


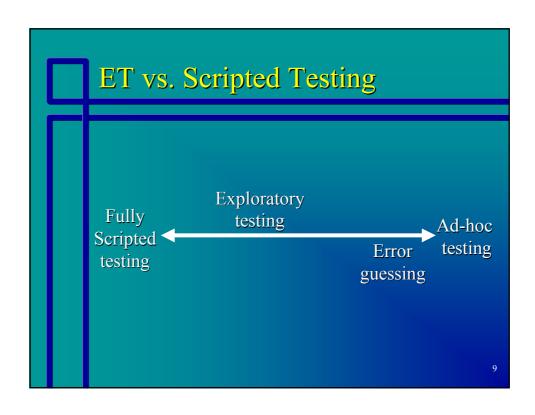
Error Guessing - disadvantages No clear objectives Coverage unknown Defect reproduceability / repeatability No re-usable testdesigns ("testware") Finding defects is down to "luck" Hard to manage

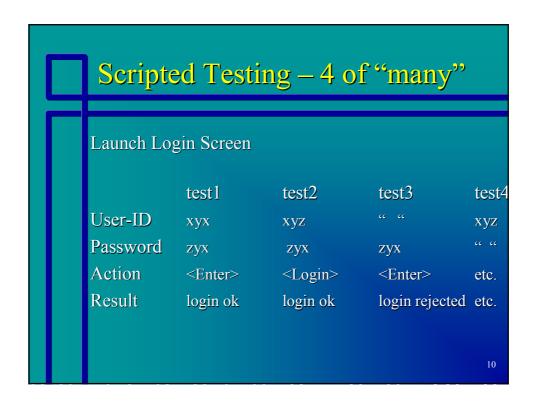


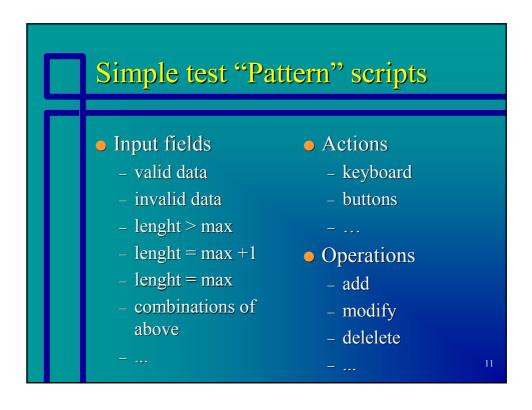


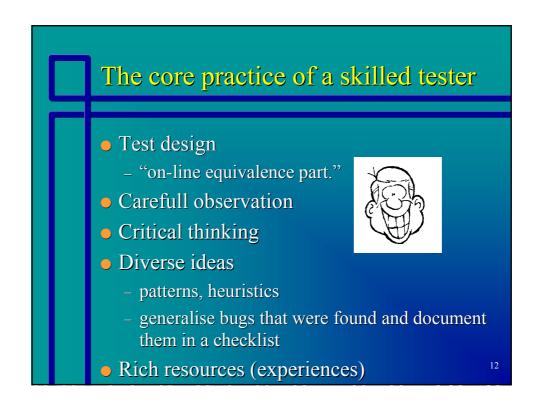






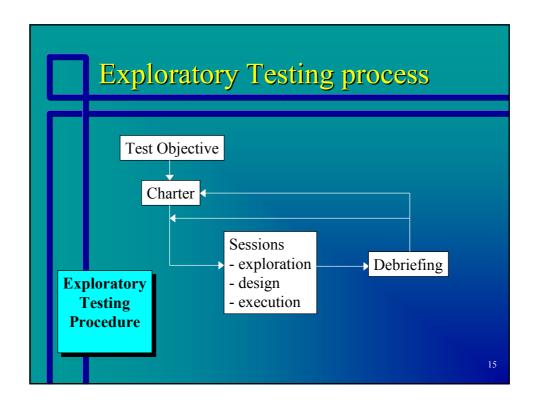


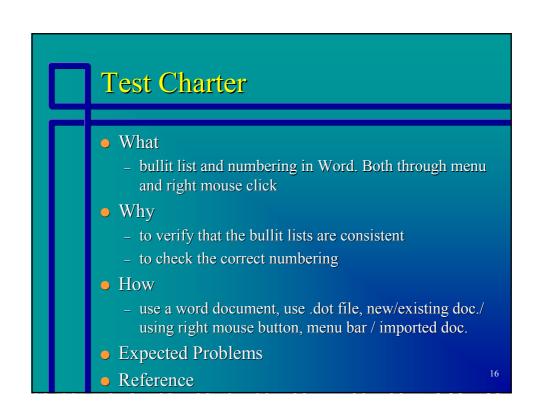




ET Status ET is any testing to the extent that the tester actively controls the design of the tests as those tests are performed and uses information gained while testing to design new and better tests There is not one universal approach (yet) Common elements but procedure needs to be defined to your needs Goeroes Cem Kaner, James Bach, Stale Almland James Whittaker, Allan Jorgensen

Test charters (objectives) - List of risks, coverage items, to do list Product exploration - what is the it supposed to do? Test design - how are we going to tackle the problems? Test ideas rather than formal scripts Test execution - do we think it works? Heuristics - guidelines rules on the what and how Reviewable results - Do the results meet the requirements and can we prove it? Depends on the business objectives





Charter: Search Engine (Company internal)

What:

Search Engine to look up other sources of information in the company (list of sample information sources: A, B, C etc.). Standard and Advanced search must be tested.

Why:

To test the search feature with single information sources and multiple sources, to see that the retrieved information is presented consistently and according to standard, and that the retrieved information is correct.

How:

Search from the WEB portal as well as continue searching in the result list (advanced search – refining the search)

• Expected problems:

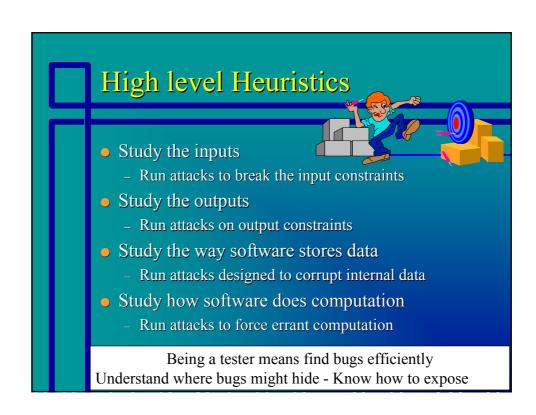
Some information not found.

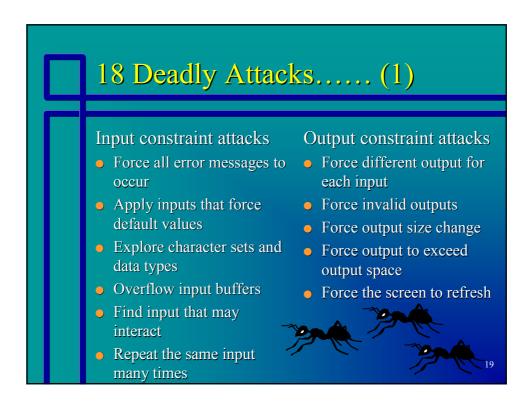
Not possible to navigate to information found (jumping between information sources)
Information found not presented consistently independent of sources

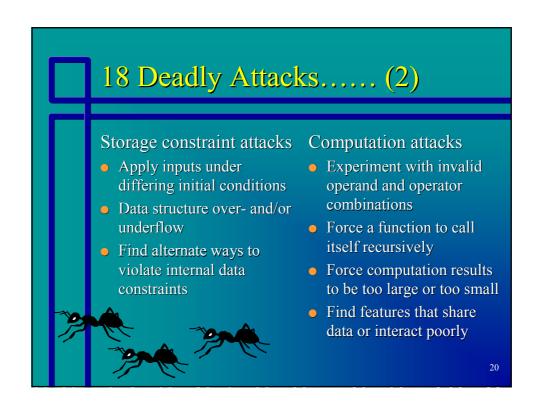
• References:

Requirement specification section x.11









Team based approach Two person testing together test executor and observer Regular (e.g. daily) defect meetings What is the most interesting bug you have found today? Team learning and motivation "Exploratory management"

Doing Exploratory Testing Keep your mission and charter clearly in mind Keep notes that help you report what you did, why you did it, and support your assessment of product quality Keep track of the questions and issues raised in your exploration To supercharge your testing, pair up with another tester You test what you know about, and you are alert for clues about behaviors your don't yet know about

Where does ET fit? Rapid feedback on a new Investigate and isolate a particular defect product or feature • Investigate the status of a You have already tested using scripts, and seek to particular risk, in order to diversify the testing evaluate the need for scripted tests in that area • Find the single most • There is not time to important bug in the shortest time specify and script Testing based on reading • Check the work of another tester by doing a brief the user manual and checking each assertion. independent investigation Little or no specification

Great with agile methods!! RAD RuP DSDM Extreme programming

Less useful when The feedback loop breaks down Batch systems Detailed calculation (expected results needed) Most critical features Auditability is required Testers are less skilled Keep track of the bug/fix ratio!!

Getting the Most Out of ET Augment ET with formal test designs Exploit inconsistency Exploit the human factor Learn the logic of testing Practice critical reading and interviewing Learn to model a product rapidly Use a "grid search" strategy to control coverage Learn to make reviewable notes Practice responding to scrutinity Develop and use heuristics

Key learning points #1 Exploratory testing familiares tester with the product Based on test charters Formal test process defined The skills of the testers are the core Most usefull when applied in combination with formal test designs Testing is Fun

Key learning points #2 There must be core controls in place Test must remain objective driven Risks are still the main driver and Re-usability must be considered Automation can only be considered if there is something to compare the results to Test design is also an important static testing technique

